

METHOD AND SYSTEM FOR TRANSMISSION
AND FREQUENCY DOMAIN EQUALIZATION FOR
WIDEBAND CDMA COMMUNICATIONS

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ABSTRACT OF THE DISCLOSURE

10 The invention provides a method and system for transmission and
frequency domain equalization for wideband CDMA communications by providing
at least one spread sequence portion, and inserting a cyclic redundancy to the
spread sequence to form a transmitted baseband sequence. The invention
further provides a method and system for converting a plurality of receive
samples from at least one spread sequence portion into a plurality of frequency
15 domain samples, determining a plurality of frequency domain equalization
weights for the frequency domain samples, and determining a time domain signal
estimate based on the frequency domain equalization weights and frequency
domain samples.

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